LOGGE	D BY		BEGIN DATE	COMPLETION DATE	BOREHOL										1)	ŀ	HOLE ID			
S. M					N2120702.98 / E5996074.595 (NAD83)											MPTNB-R1				
DRILLIN			CTOR and Testing, Inc.		BOREHOLE LOCATION (Offset, Station, Line) Offset 89ft R Sta 64+58 NB Alignment												SURFACE ELEVATION 10.956 ft (NAVD88)			
DRILLIN					DRILL RIG											E	BOREHOLE DI			
Mud		•			Failing 1500												5 in.			
SAMPL	ER TY	PE(S)	AND SIZE(S) (ID)	SPT HAMMER TYPE												HAMMER EFFICIENCY, ERI				
BOREH	∠.4¨), IOLE E	SACKE	(1.4°), Grab, Shelb ILL AND COMPLETION	GROUNDY	7'Automatic, 140 lbs., 30-inch drop GROUNDWATER DURING DRILLING AFTER DRILLING (DATE)											72.8%	OF BORING			
			rout backfill	READINGS	GROUNDWATER DURING DRILLING AFTER DRILLING (DATE READINGS 7											59 ft				
(£)						u :	ē		¥				μ	_	5					
ELEVATION	(#)					ocat		Blows per 6 In	. Foc	(%)		(%	Neig	Strength	etho					
VAT	DEРТН (ft)	hics				Die L	ole P	s pe	s pe	very	%)	ture ent (Jnit \	ır Str	ا ق	5 7				
	DEF	Material Graphics		Description		Sample Location	sample Number	Blow	Blows per Foot	Recovery (RQD (%)	Mois	Dry Unit Weight (pcf)	Shear (tsf)	Drilling Method	200	Remar	ks		
	0 <u>_</u>			RAVEL (SC), loose, dark gree, GRAVEL is angular to	ırayish		:1								V				T	
	1		subrounded. [FILL]	se, GIAVEL is alligular to		₩ S	´`								1}					
8.96	2		1.5', grades moist with	increase in CLAY content.		Ш									$ \langle $				E	
	,					N ^s	32	6 6	13	100					1					
	3		3.5', piece of brick.					7	_	00		12.6	114.3		$ \mathcal{Y} $	PA			E	
6.96	4		J.J, piece of blick.			$ \chi ^{\epsilon}$	33	2	9	89									E	
	5		4.8', ash.			H		6							1}					
4.96	6														$ \langle $					
4.50	- €														1				E	
	7 🖹		7.0', grades wet.												B				E	
2.96	8		Poorly graded SAND w	vith SILT (SP-SM), very loo		N S	34	4	5	100					}					
	9			ed with pockets of dark gra		<u> </u>		2 3							{ }					
			Poorly graded SAND (S	SP), very loose, dark browr	<i>J</i> n, moist,	M^{s}	35	0	1	100										
0.96	10		fine. 9.0', grades dark gray.			Д		1							A				E	
	11			nents and pieces of GRAVI I), soft, dark gray, wet, with		11									Ω					
-1.04	12			s very fine, sulfuric odor de																
900	12		Poorly graded SAND w	vith CLAY (SP-SC), dark blu		Ηı	J6		100	75					000000					
-3.04	13		wet, fine to medium, wi	ith organic odor. [MARINE	SAND]				psi							D.			E	
	14														\triangleright	PA			E	
	15					1			300						000					
2 -5.04	16								\psi/											
2 0.04			Grades with shell fragm	nents															E	
5	17		Crados Will orion magn	nonto.															F	
-7.04	18		. , , ,	live gray, wet. [BAY MUD]		Ms	67	0	1	100				TV =	000				F	
401	19		SANDY Fat CLAY (CH MUD]	l), soft, olive gray, wet. [SA	NDY BAY	\coprod	_	1						0.175, 0.14	200					
b co.				live gray, wet, with soft she	- — — — - ´	∭s	88	1 2	8	100					000				E	
-9.04	20		CLAYEY SAND (SC), I	loose, olive brown, wet, fine		\mathbb{A}		6			2	22.2			000	PA			Ē	
000	21			ine GRAVEL. [MARINE Solith SILT (SM), medium der											<u> </u>				E	
-11.04	22			ine, with trace fines. [COLI											100				E	
90	22					S	39	15	54	100					<u> </u>					
	23					M		22			2	24.2	128.5			PA				
-13.04	24					√s	10	32	31	100					00				E	
	_ ₂₅		(acti B			Ν									0					
Grades with shell fragments. 7.04 18																				
	ion		В	BORING RECORD MP1								PTNB-R1								
	rvices										3701									
CALL CALL			Geotec	chnical Services				PROJECT OR BRIDGE NAME Doyle Drive Replacement Project												
2						BF	BRIDGE NUMBER PREPARED BY DATE								SHEET					
3				34	<u>4-01</u>	1-0163R T. Carroll 11-3-08							1 of 3	პ						

ELEVATION (ft)	ОЕРТН (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Content (%)	Dry Omr. Weignt (pcf)	Shear Strength (tsf)	Drilling Method		Remarks	ı	
-15.04	26 26		Poorly graded SAND with SILT (SM), medium dense, dark yellowish brown, wet, fine, with trace fines. [COLMA SAND]	X		10 13 18							MANN				
-17.04			Grades dense, dark yellowish brown, and wet.	X	S11	16 30 41		100					111111				
-19.04				\mathbb{N}	S12	17 24 28	52	100					000000				
-21.04	32		Poorly graded SAND with CLAY (SP-SC), dense, dark yellowish brown, moist, fine, with iron-oxide mottling.	V	S13	00	63	100	2	22.8 1	31.3			PA			
-23.04	34		Grades olive brown.	$\langle \rangle$	S14	30 33 6 12 21	33	100	2	21.4(1)	31.6 32.3	1.818 DS = 2.4	IIIIII				
-25.04	36 37		Poorly graded SAND (SP), dense, light yellowish brown, moist, fine, slight iron-oxide staining.			21						DS = 2.838	MINNE				
-27.04	38		37.5', grades with slight cementation.38.5', grades yellowish brown, wet.	V	S15 S16	30 43		100					00000				
-29.04	40		CLAYEY SAND (SC), medium dense, olive gray, moist, fine, with iron-oxide staining. Poorly graded SAND with SILT (SP-SM), very dense, dark	<u> </u> 		5 17 12							111111				
-31.04 -31.04	42		yellowish brown, wet, fine, slightly cemented, with iron-oxide staining.	X	S17	50/	50/ 5.5"	100			0.1 =		000000000000000000000000000000000000000				
ORMAT.GLB 11/3/08 -20.00000000000000000000000000000000000	44			X	S18	5.5" 18 50/ 5.5"	50/ 5.5"	100	2	21.6 13	31.7			PA			
-35.04	46																
-37.04	48			A	S19 S20	31 42 35	73 50/6"	100					111111				
-2-08.GPJ AR	50		Grades very fine.			50/6"							<u> </u>				
CALTRANS FORMAT DOYLEDRIVE_ARUPLOGS_11-2-08 GPJ ARUP LIBRARY_CALTRANS FO	52 53		CLAYEY SAND (SC), very dense, grayish brown, moist, very fine.		U21			63	2	20.2 1	31.4		<u> </u>	CU			
DRIVE PA: 43.04	54													PA			
DOYLE			(continued)		F	REPOR	T TIT	LE		_					HOLE	ID	-
INS FORMAT			Department of Transportation Division of Engineering Services Geotechnical Services			ROJEC	C ST OI	OUN S.F. R BR	ITY IDGE	NAM	ROU 101 E		8.3	STMILE 5/9.4	MP ³ EA 163	TNB-R1 701	
CALTRA									Doyle Drive Replacement Project BRIDGE NUMBER 34-0163R PREPARED BY DATE SHEE T. Carroll 11-3-08 2 0							SHEET 2 of 3	

(ff)				<u>io</u>)er	_	ot			ht	£	70			
ELEVATION (ft)	DEPTH (ft)	ics		Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	(%)	Moisture Content (%) Dry Unit Weight (pcf)	Shear Strength (tsf)) Metho	Casing Depth		
ELEV	LA30	Material Graphics	Description	Sampl	Sampl	Blows	Blows	Recov	RQD (%)	Moistu Contel Dry Ur (pcf)	Shear (tsf)	Drilling	Casing	Remarks	
-45.04	56		CLAYEY SAND (SC), very dense, grayish brown, moist, very fine.									MMM			
	57											XXX			
-47.04	58		Grades with heavy iron-oxide staining.	\bigvee	S22	24 22	48	100				XXX)		-
	59		Borehole terminated at a depth of 59 feet on 12/4/2007.			26									
-49.04	60		See Boring Record Legend for soil classification chart and key to test data and sampler type.												
	61														•
-51.04															•
-53.04	63														
00.01															
-55.04	66														-
	67														
-57.04	68														•
-59.04															
-61.04															
-63.04	74														
ORMA	75														
-65.04	76														•
Y_CALT	77														•
-67.04	78 - 79 -														
-69.04	80														
08.GPJ	81														
-71.04	82														
CALIKANS FORMAT DOYLEDRIVE ARUPLOGS 11-2-08.GFJ ARUP LIBRARY CALIKANS FORMAT GLB 11/3/08 CALIKANS FORMAT GLB 11/3/	83														
-73.04	84														
JALED!	-85 [⊥]	1			1.									1	<u> </u>
MAT D			Department of Transportation Division of Engineering Services		E	REPOR BORII DIST.	NG F ☐c	REC		RD ROL	JTF	Pi	OSTMII F	MP	ID ΓNB-R1
NOT SE		7	Geotechnical Services		4 F	<mark>‡</mark> PROJEC	S ST OF	3.F. R BR	IDGE	10 ⁻ E NAME	1		OSTMILE .3/9.4	EA 163	701
LIRA					В	Doyle BRIDGE 34-01	NUN	/IBEF	kepl ≀	PREPAR T. Car	ED BY	ect		DATE 11-3-08	SHEET 3 of 3